

Capstone STC Master Drawing List

Part Number: 560-1027-01

Document Revision: -
January 27, 2000

UPS Aviation Technologies
2345 Turner Rd SE
Salem, OR 97302 USA

Phone (503)581-8101
FAX (503)364-2138

APOLLO® is a registered trademark of UPS Aviation Technologies

Printed in the USA

Capstone STC Master Drawing List

UPS Aviation Technologies
2345 Turner Rd SE
Salem, OR 97302

Jan 27, 2000
Part #: 560-1027-01 Rev -

Revision Log

Rev	Date	Description	EN	By	Auth	Chk
00 -	Nov 11, 1999	Initial release, MS Word 97 SR-1	6229	CWH		
01 -	Jan 27, 2000	Update for amended STC	6400	CWH		

UPS Aviation Technologies A United Parcel Service Company		P. O. Box 13549 Salem, Oregon USA	
Title:	Capstone STC Master Drawing List	Number:	560-1027-01
Prepared By:	Craig Hudson	Date:	11/11/99
Approved By:	Craig W. Hudson Craig Hudson, Capstone Program Manager	Date:	11/11/99
Approved By:	Chris Schulte Chris Schulte, Senior Systems Engineer (DER)	Date:	11/11/99
Approved By:	Russell Deloy Graham R DeLoy Graham, Senior Software Engineer (DER)	Date:	11/12/99

Capstone STC Master Drawing List

UPS Aviation Technologies
2345 Turner Rd SE
Salem, OR 97302

Jan 27, 2000
Part #: 560-1027-01 Rev -

Table of Contents

1	INTRODUCTION.....	4
1.1	PURPOSE.....	4
1.2	SCOPE.....	4
1.3	CAPSTONE STC INCLUDES APPROVED MODEL LIST	4
2	DATA REQUIRED FOR INSTALLATION.....	4
2.1	INSTALLATION DATA	4
2.2	RELATED DATA (SUBSTANTIATING DATA).....	5
2.3	REFERENCE DOCUMENTS	5
3	PARTS LIST & EQUIPMENT CONFIGURATION.....	6
4	GENERAL INSTALLATION REQUIREMENTS.....	6
4.1	GENERAL	6
4.2	MECHANICAL.....	6
4.3	HARDWARE	6
4.4	WIRING	6
4.5	CIRCUIT PROTECTION	6
4.6	ELECTRICAL LOAD ANALYSIS	6
5	SPECIAL INSTALLATION INSTRUCTIONS.....	6

Capstone STC Master Drawing List

UPS Aviation Technologies
2345 Turner Rd SE
Salem, OR 97302

Jan 27, 2000
Part #: 560-1027-01 Rev -

1 Introduction

1.1 Purpose

The purpose of this document is to list the data required to support STC installation of the UPS Aviation Technologies (UPS AT) Capstone system in accordance with STC requirements and to list other data associated with the STC which is not required for installation.

1.2 Scope

This document applies to the Capstone STC. This document includes general installation requirements, special installation instructions, and it provides an index of STC data including both data required for installation and data associated with the STC, but not required for installation.

1.3 Capstone STC includes Approved Model List

The STC includes an approved model list that should be consulted for applicability to each installation. If the installation is covered under the STC, then the approved AFM can be directly used for that installation. The installer should complete page 1 of the AFM (add make/model, registration number and serial number) and include it with the aircraft's existing flight manual.

2 Data Required for Installation

2.1 Installation Data

All documents listed in this section must be of the version listed or later FAA approved revisions.

Doc No.	Description	REV
560-1027-01	Capstone Master Drawing List	-
560-1028-01	Capstone AFM Supplement	-
560-1029-01	Capstone System Configuration Index	-
560-1024-02	Capstone System Installation Instructions	-
560-0959-03	Apollo GX60 Installation Instructions	A
560-1025-02	Apollo MX20 Installation Instructions	-
560-0949-01	Apollo GPS Antenna Installation Instructions	-
560-0215-01	UAT Datalink Antenna Installation Instructions	-
930005	Altitude Encoder Installation Instructions	A
424-1004-000	Capstone Installation kit	A
560-1026-00	MX20 User's Guide	-
560-0961-02	Apollo GX GPS User's Guide	-
560-0963-02	Apollo GX Comm User Manual Supplement	-

Capstone STC Master Drawing List

UPS Aviation Technologies
2345 Turner Rd SE
Salem, OR 97302

Jan 27, 2000
Part #: 560-1027-01 Rev -

2.2 Related Data (Substantiating Data)

The following documents contain information related to this STC but are not required for follow-on installations.

Doc No.	Description	REV
PD 3516	Capstone System Accomplishment Summary	B
PD3503	Capstone System Certification Plan	B
500-0376-00	Cable Assembly, TNC / RA-TNC, 2FT	A
500-0377-00	Cable Assembly, TNC STYLE RA/TNC RA, 50 FT	-
500-0378-00	Cable Assembly, MX/GX TO 50PIN CAPSTONE	-
500-0378-01	Cable Assembly, MX/GX TO 50PIN CAPSTONE	-
500-0379-00	Cable Assembly, 50 PIN TO UAT/PWR/ALT ENC	-
500-0379-01	Cable Assembly, 50 PIN TO UAT/PWR/ALT ENC	-
310-0429-00	Mounting Tube, MFD	A
310-0661-00	Mounting Tray, Capstone UAT	A
PD3513	UAT Environmental Test Report	A
PD1217	ADS-B UAT Software Accomplishment Summary	-
PD1218	ADS-B UAT Software Configuration Index	-
BD3249	Unit Configuration Apollo UAT Sensor	-
565-0298-00	Label, UAT nameplate (serial number)	-
PD1415	MX20 System Safety Assessment	-
	GX TSO C129 letter	
	GX TSO C37, C38 & C128 letter	
	Altitude Encoder TSO letter	
	MX TSO C110a & C113 letter	

2.3 Reference Documents

The following documents are used as reference for the installation.

- FAA AC 43.13-1B, Acceptable Methods, Techniques, and Practices - Aircraft Inspection and Repair
- FAA AC 43.13-2A, Acceptable Methods, Techniques, and Practices - Aircraft Alterations
- FAA AC 20-67B, Airborne VHF Communications Equipment Installation
- FAA AC 20-138, Airworthiness approval of GPS

Capstone STC Master Drawing List

UPS Aviation Technologies
2345 Turner Rd SE
Salem, OR 97302

Jan 27, 2000
Part #: 560-1027-01 Rev -

3 Parts List & Equipment Configuration

Please refer to the Capstone System Configuration Index (560-1029-01 or most recent) for documentation that provides information about all current, valid configurations of Capstone or related equipment.

4 General Installation Requirements

4.1 General

The installation must be done in accordance with all applicable FARs. The installation shall conform to the data listed in section 2.1 Data Required for Installation.

4.2 Mechanical

Mechanical installation, wiring, cable bundling and routing, and connections to existing aircraft systems must conform to those specific instructions or requirements found in the STC data. In any area where specific installation instructions or requirements are not provided in the STC data, the installer shall conform to the recommended practices and procedures found in AC 43.13-2A, Chapter 2, Radio Installations, and Chapter 3, Antenna Installations; AC 43.13-1B, chapter 11, Electrical Systems, section 3,4,7 and 8.

4.3 Hardware

Hardware not supplied with the equipment, or otherwise specified in the appropriate installation manuals or other STC data (ie screws, nuts, tie wraps.... etc) should be from standard aircraft hardware as described by AC 43.13-1B, Chapter 5, Aircraft Hardware.

4.4 Wiring

All wire used in the installation should be of appropriate standard aircraft quality grade and size as described in AC 43.13-1B, Chapter 11, Sections 5-20.

4.5 Circuit Protection

All circuits must be protected in accordance with AC 43.13-1B, Chapter 11, Section 4, Circuit Protection Devices.

4.6 Electrical Load Analysis

An electrical load analysis should be performed on each aircraft, as described in AC 43.13-1B, Chapter 11 section 3.

5 Special Installation Instructions

None